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CANMET

Canada Centre for Mineral and Energy Technology
Centre canadien de la technologie des minéraux et de l'énergie

BIBLIOGRAPHY OF NON-CONFIDENTIAL ORAG REPORTS FROM 1975 TO AUGUST 1985

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INTRODUCTION

This report provides a bibliography of all the non-confidential reports concerning ore reserve assessment methodologies and some reports on mine cost studies. All listed reports were produced by ORAG (Ore Reserves Assessment Group), from 1975 up to August 1985.

The first part is a listing of internal Mining Research Laboratories reports, with some Papers presented at various conferences. The second part (Appendix A) is a listing of all the reports in which each computer program, developed by ORAG, is described in detail for both internal and external users (CANMET's Systems for Mineral Reserve Evaluation).

For information concerning the availability of the CANMET's Systems for Mineral Reserve Evaluation, please contact:

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INTRODUCTION

Le présent rapport contient une bibliographie de tous les rapports non confidentiels portant sur les techniques d'évaluation des réserves minérales de même que quelques rapports d'étude sur les coûts d'exploitation minière. Tous les rapports dont il est fait mention sont présentés par le Groupe d'évaluation des réserves minérales (ORAG) et ont été rédigés à compter de janvier 1975 à août 1985.

La première partie du rapport comprend le répertoire des rapports internes des Laboratoires de recherche minière dont certains ont fait l'objet de présentations à des conférences. La deuxième partie (Annexe A) présente une liste des rapports qui donnent une description détaillée de chacun des programmes informatisés mis au point par ORAG pour les usagers du Centre de recherche ou pour ceux de l'extérieur (Systèmes du CANMET pour l'évaluation des réserves en minéraux).

Pour plus amples renseignements concernant l'accès au Systèmes du CANMET pour l'évaluation des réserves en minéraux, prière de contacter:

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LIST OF ORAG REPORTS

Report No.	Title	Author(s)
75-87	"Dimension of a Mining Block for a Particular Relative Precision with Respect to the Metal Tonnage".	R. Sabourin
76-53 (op)	"Application de la Géostatistique aux Gisements d'Uranium du Canada."	R. Sabourin
78-42 (op)	"Guide for Coding Drill-Hole Data from Uranium Deposit" - Version 2 (Presented at EMR Uranium Assessment Seminar, Ottawa,June 29, 1978)	R. Sabourin
78-48 (op)	"Computer Programs for Ore Reserve Evaluation" (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	R. Sabourin
78-55 (op)	"The Program COMPOS." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	R. Sabourin
78-56 (op)	"Computer Programs for Processing Coded Data." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	R. Boyle
78-57 (op)	"Reserve Calculation Methods for the Gartner Deposit, Key Lake, Saskatchewan." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	André Boyer
78-58 (op)	"Reserve Calculation Methods for the Aphebian Uranium Deposits the Makkovik Sub-Province." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	D. Walsh
78-59 (op)	"Ore Reserve Calculations - Their Role in the mine Evaluation Process; The Question of their Reliability, the Necessity and Means of Expressing their Reliability Quantitatively." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	Á. Füstös
78-63 (op)	"Fundamental Aspects of the Assessment of Reasonably Assured Resources of Uranium by the Mine Evaluation Group, MRL CANMET, EMR." (Presented at EMR Uranium Assessment Seminar, Ottawa, June 29, 1978)	R. Welwood
78-64 (OP)	"The Mining Engineering Function in the Assessment of Reasonably Assured Resources of Uranium.	G. Allen
78-91 (TR)	"Program MEG 0401"	R. Boyle
78-96 (TR)	"MEG 2000 Standard Report." (Display of MEG 0100 Output File.)	R. Sabourin
79-24 (TR)	Définitions des Réserves.	R. Sabourin
79-53 (TR)	"Standard Procedure for the Documentation of Computer Programs"	R. Sabourin

LIST OF ORAG REPORTS

Report No.	Title	Author(s)
——	"Geological and Mining Input for Projecting Uranium Production Capability" (Presented at a Proceedings of a Workshop Convened by the OECD Nuclear Energy Agency and the IAEA on "Methodologies for Forecasting Uranium Availability", Grand Junction, Colorado, Feb. 1980, p. 30-41)	R. J. R. Welwood
80-39 (TR)	"Program 0100 User' s Guide (A Computer Program to Find Economical Intersections of a Drill Hole)" Version 1	R. Sabourin
80-44 (INT)	"Interpretation of Density and Porosity Measurements of Grab Samples Taken in the Stock Piles and the Open Pit of Rabbit Lake Uranium Mine"	R. Sabourin
80-49 (TR)	"Application of Geostatistics to Uranium Deposits in Canada (Revised)"	R. Sabourin
81-111(op)(J)	"Geostatistics as a Tool to Define Various Categories of Ore Reserves"	R. Sabourin
81-113(TR)	"U/TH Ratios"	Á. Fūstōs
——	"Comparative Statistical Analysis of the Uranium and Thorium Content Distribution in the Denison Main Reef, Elliot Lake Syncline, Elliot Lake, Ontario" (Unpublished M. Sc. Thesis, 1982, Carleton University. 145 p.)	Á. Fūstōs
82-28 (TR)	"Methodological Development for a Reserve Inventory of the Lignite Coal Beds of Southern Saskatchewan"	R. Sabourin R. Boyle
82-39 (OP)	"Systems for Mineral Reserve Evaluation" (to be Presented at the 84th Annual General Meeting of the CIM)	R. Sabourin R. Boyle
82-63 (TR)	"Guide for Coding Drill-Hole Data from Uranium Deposits, Version 3"	R. Sabourin
82-140 (TR)	"Explanatory Notes for the Multiple Cutoff Evaluation Method"	Á. Fūstōs
——	"Made in Canada Software Bring Mining into Computer Age" (Published in Geos, vol. 12 No. 3, 1983)	R. Sabourin
83-1 (TR)	"Computer Use in Resource Evaluation - CANMET's Systems for Mineral Reserve Evaluation" (For list of subreports see Appendix A)	R. Sabourin
83-15 (op)	"Utilisation de l'Ordinateur pour l'Evaluation des Resources - Systèmes CANMET pour l'Evaluation des Réserves Minérales" "Computer Use in Resource Evaluation CANMET's Systems for Mineral Reserve Evaluation" (Présentation au Congrès ACFAS-UQTR 1983 Trois-Rivières, Province de Québec)	R. Sabourin

LIST OF ORAG REPORTS

Report No.	Title	Author(s)
83-32 (CF)	"Reserve Inventory of Estevan Coal Fields in Southern Saskatchewan"	R. Sabourin R. Boyle
83-43 (OP,J)	"Application of a Geostatistical Method to Quantitatively Define Various Categories of Resources" (for Presentation at the Second NATO Advance Study Institute Geostat 1983 - Tahoe, Stanford Sierra Lodge California. Sept. 6-17, 1983)	R. Sabourin
84-8 (TR)	"Contract requirement for the Canadian mining industry capital and operating indices"	M. Bétournay A. Boyer
84-61 (OP,J)	"Multiple cutoff estimation of global in situ ore reserves" (Presented at the CIM General Meeting, Geology Div., Gen. Session, April 18, 1984, Ottawa)	Á. Fūstōs A. Boyer R. Boyle
——	The Usage of Weighted Averages in Grade Estimation of Stratiform Ore Deposits (Presented at the CIM Annual General Meeting, Geology Div., Mineral Deposits, General Session, April 22, 1985, Vancouver)	Á. Fūstōs
85-36 (TR)	"Assessment of Recoverable Coal Reserves, Estevan Coalfield, Saskatchewan"	Á. Fūstōs A. Boyer R. Boyle
85-37 (TR)	"Assessment of Recoverable Coal Reserves, Willow Bunch Coalfield, Saskatchewan"	D. Walsh R. Boyle
85-109 (INT)	"Analysis of Cutoff Grade Sensitivity to Accuracy of Costs Estimated for a Mine Cost Model"	R. W. D. Clarke

Note: All the report numbers reported in the listing are preceeded by MRP/MRL

APPENDIX A

LIST OF REPORTS ON THE SUBJECT OF MINERAL RESERVE EVALUATION COMPUTER PROGRAMS

Report no. ERP/MRL 83-001
Title: CANMET's system for mineral reserve evaluation.
Topic: Summary of the computer programs for reserve evaluation.

Report no. ERP/MRL 82-063
Title: Guide for coding drillhole data from uranium deposits
Topic:

Report no. ERP/MRL 82-089
Title: Program MEG0401 user's guide.
Topic: Computer program to sort drillhole data and store on computer file.

Report no. ERP/MRL 83-090
Title: Program MEG0402 user's guide.
Topic: Computer program to correct and merge drillhole data.

Report no. ERP/MRL 82-091
Title: Program MEG0403 user's guide.
Topic: Computer program to select drillholes from the computer file.

Report no. ERP/MRL 82-092
Title: Program MEG0405 user's guide.
Topic: Computer program to produce a list of drillhole numbers and locations.

Report no. ERP/MRL 82-093
Title: Program MEG0410 user's guide.
Topic: Computer program (I) to verify coded drillhole data.

Report no. ERP/MRL 82-094
Title: Program MEG0411 user's guide.
Topic: Computer program (II) to verify coded drillhole data.

Report no. ERP/MRL 82-095
Title: Program MEG0420 user's guide.
Topic: Computer program to change drillhole rock codes.

Report no. ERP/MRL 82-096
Title: Program MEG1000 user's guide.
Topic: Computer program to standardise drillhole data.

Report no. ERP/MRL 82-097
Title: Program MEG1010 user's guide.
Topic: Computer program to select drillholes from the standardised data.

Report no. ERP/MRL 82-098
Title: Program MEG1500 user's guide.
Topic: Computer program to print a drillhole log.

Report no. ERP/MRL 82-099
Title: Program MEG1600 user's guide.
Topic: Computer program to combine underground drillholes.

Report no. ERP/MRL 82-100
Title: Program MEG1650 user's guide.
Topic: Computer program to merge standardised data.

Report no. ERP/MRL 82-101
Title: Program MEG0100 user's guide.
Topic: Computer program to compute economical intersections of holes.

Report no. ERP/MRL 82-102
Title: Program MEG2010 user's guide.
Topic: Computer program to group drillhole economical intersections.

Report no. ERP/MRL 82-103
Title: Program MEG3000 user's guide.
Topic: Computer program to plot drillhole data on sections and/or plans.

Report no. ERP/MRL 82-104
Title: Program MEG2040 user's guide.
Topic: Computer program to divide drillhole segments into equal lengths.

Report no. ERP/MRL 82-105
Title: Program MEG2050 user's quide.
Topic: Computer program to group equal length segments within blocks.

Report no. ERP/MRL 82-106
Title: Program MEG2055 user's guide.
Topic: Computer program to evaluate the grade of a block.

Report no. ERP/MRL 82-107
Title: Program MEG2100 user's guide.
Topic: Computer program to perform statistical analysis of drillhole data.

Report no. ERP/MRL 82-108
Title: Program MEG2200 user's guide.
Topic: Computer program to compute variograms and trends, sector method.

Report no. ERP/MRL 82-109
Title: Program MEG2250 user's guide.
Topic: Computer program to compute variograms and trends, blocking method.

Report no. ERP/MRL 82-110
Title: Program MEG2275 user's guide.
Topic: Computer program to find best fit variogram model.

Report no. ERP/MRL 82-111
Title: Program MEG2300 user's guide.
Topic: Computer program to krige point or block data.

Report no. ERP/MRL 82-112
Title: Program MEG2400 user's guide.
Topic: Computer program to summarise tables of reserves inventory.

Report no. ERP/MRL 82-113
Title: Program MEG2560 user's guide.
Topic: Computer program to draw isocurves.